

INDIANA DEPARTMENT OF TRANSPORTATION



INTER-DEPARTMENT COMMUNICATION

Standards/Roadway Engineering – Room N642



Writer's Direct Line

317-233-2273

September 14, 2006

DESIGN MEMORANDUM No. 06-10

TECHNICAL ADVISORY

TO: All Design, Operations, and District Personnel, and Consultants

FROM: /s/ Richard L. VanCleave
Richard L. VanCleave
Roadway Standards Engineer
Production Management Division

SUBJECT: Use of Blue Retroreflectors for Snowplowable Raised Pavement Markers to Denote the Locations of Fire Hydrants along Roadways or Streets.

REVISES: *Indiana Design Manual Section 76-3.02(05)*

EFFECTIVE: September 6, 2007, Letting

The following design guidelines have been developed for the use of blue retroreflectors for snowplowable raised pavement markers (RPMs) for roadways or streets.

1. A blue-retroreflectors RPM should be specified where a fire hydrant is located within the roadway or street right-of-way. Blue-retroreflector RPMs should not be specified for a roadway where standard lane-marking RPMs are not to be installed.
2. All blue-retroreflectors RPMs should be two-way markers visible in both directions of travel.
3. A blue-retroreflectors RPM should be placed at an approximately right angle to the fire hydrant location.

4. Blue-retroreflectors RPMs should be placed in addition to the normal raised pavement markers.
5. For a multiple-lane roadway or street, the blue-retroreflectors RPM should be placed in the lane line marking nearest the fire hydrant but should not be placed on the pavement edge line.
6. A blue-retroreflectors RPM should be placed in the centerline marking where lane lines are not present. On a roadway with bidirectional left-turn lanes and where lane lines are not present (3-lane section), the blue-retroreflectors RPM should be placed adjacent to the yellow markings on the hydrant side of the bidirectional left-turn lane.

Local public agency (LPA) standards, if any, should be applied to a road under LPA jurisdiction.

The district traffic engineer will determine if the LPA standard, if such exists, should apply on a Department-maintained route within the LPA's jurisdiction.

The locations of blue-retroreflectors RPMs should be shown on the plans. The pay item name for RPMs is not affected as the retroreflector color is not included therein. Quantities for blue-retroreflectors RPMs should therefore be incorporated into the quantities for other RPMs.

INDOT *Standard Specifications* Section 921.02(d)1a(1) will be revised in time for the September 6, 2007, letting to accommodate the use of blue retroreflectors. No recurring special provision is therefore necessary. No recurring plan details or INDOT *Standard Drawings* will be issued.

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